

Table of Contents

Race Drivin' Main Wiring Diagram	Sheet 1
Race Drivin' Multisync PCB Assembly Schematic Diagram	Sheet 2-11
Race Drivin' APU PCB Assembly Schematic Diagram	Sheets 12-13
Race Drivin' Brake PCB Assembly Schematic Diagram	Sheet 13
Race Drivin' Shifter PCB Assembly Schematic Diagram	Sheet 14
Wiring Diagrams for the Power Supply and Coin Door and Schematic for the Hitron 5V, 15A Power Supply	Sheet 15

NOTE

The staple temporarily holds the schematic package together. Remove the staple before using these schematics.



Atari Games Corporation, Customer Service

737 Sycamore Dr. • Milpitas, CA 95036-1110
(408) 434-3950 • Fax (408) 434-3945 • Telex 5101007850

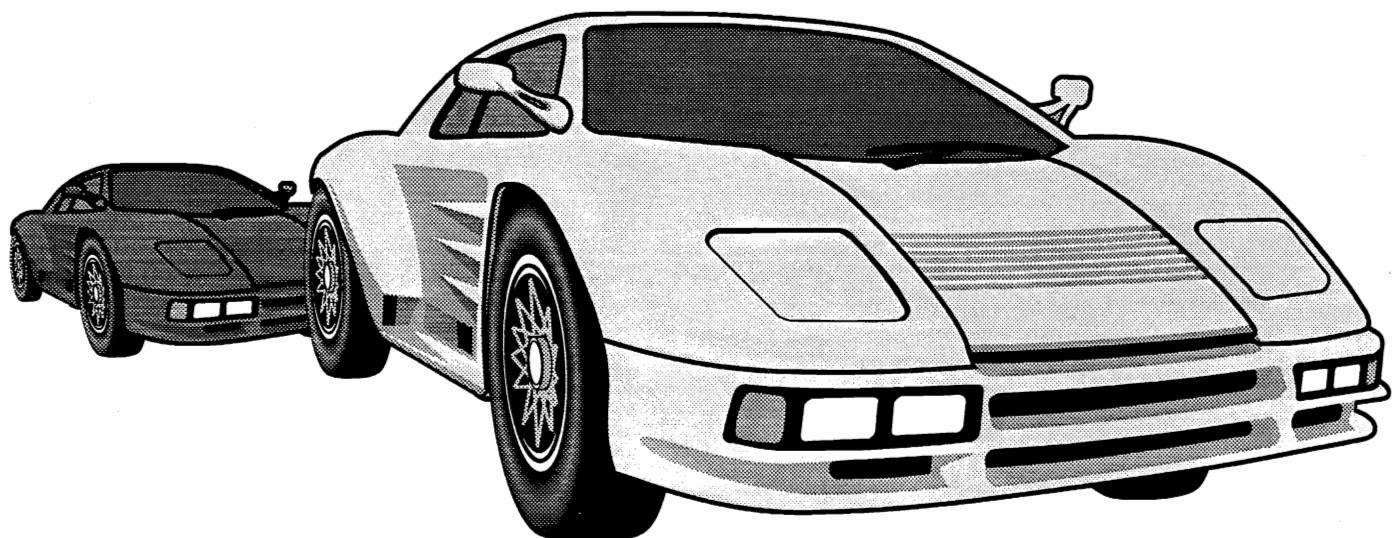
Atari Games Ireland Limited, European Customer Service

Tipperary Town • Ireland
062-52155 • Fax 062-51702 • Telex 70665

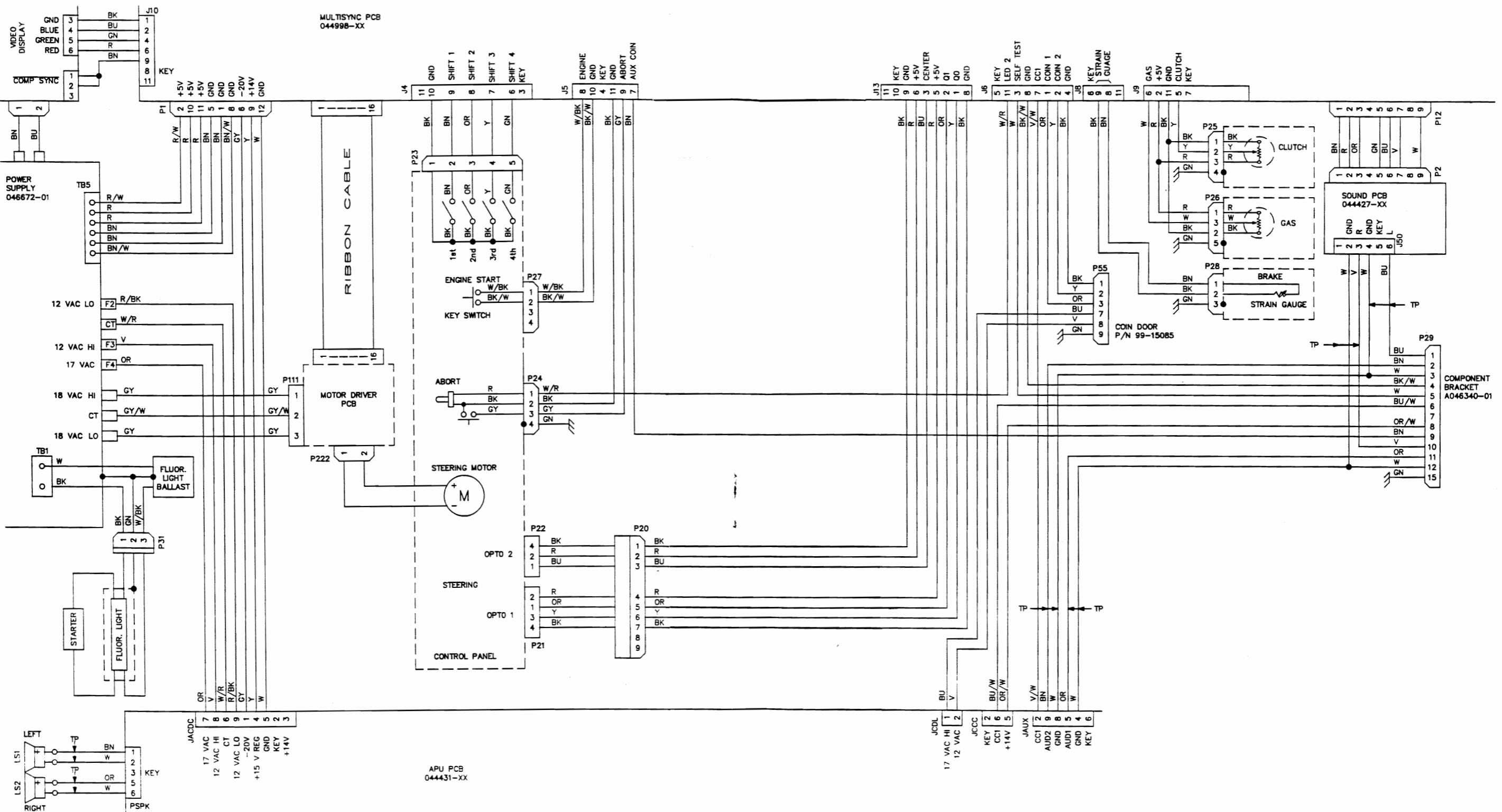


Schematic Package

Supplement to the Operator's Manual



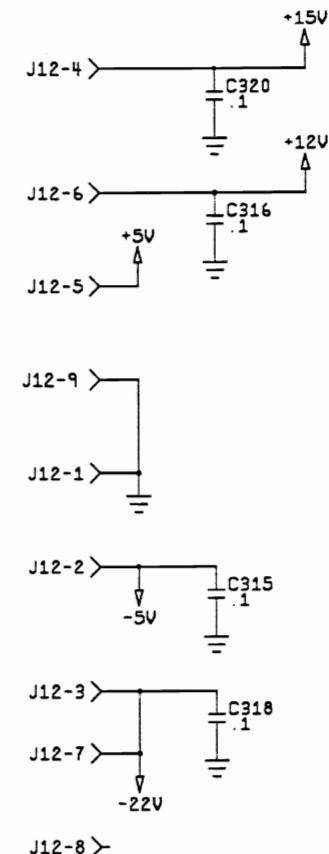
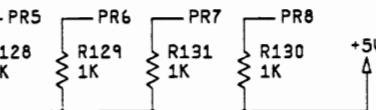
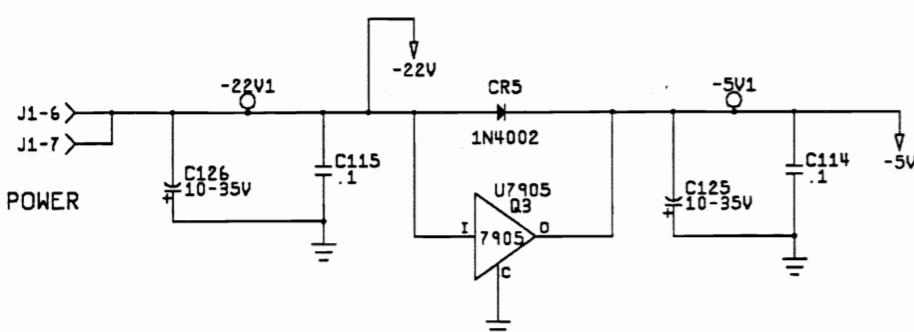
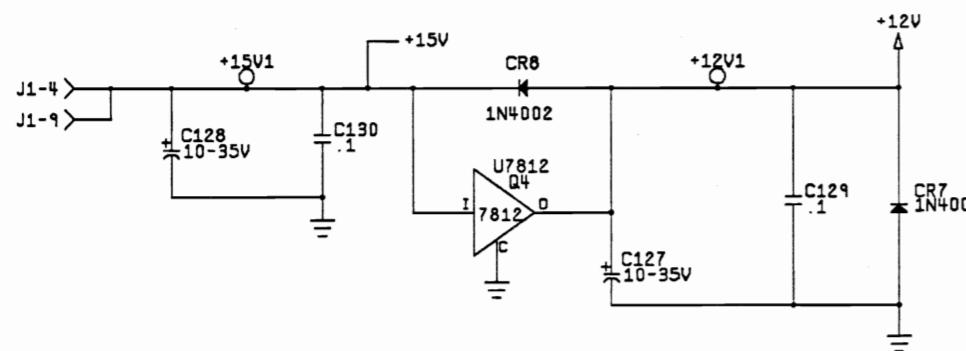
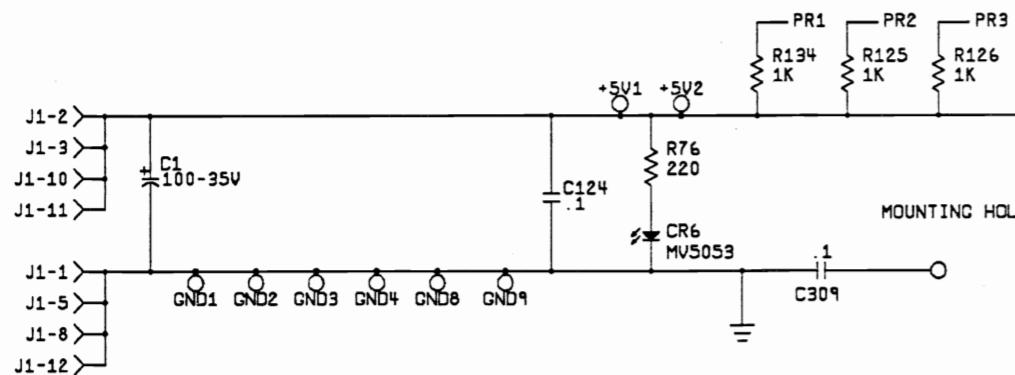
© 1989, 1990 Atari Games Corporation. All rights reserved.



Race Drivin' Compact™ Main Wiring Diagram

**NOTICE TO ALL PERSONS
RECEIVING THIS DRAWING**





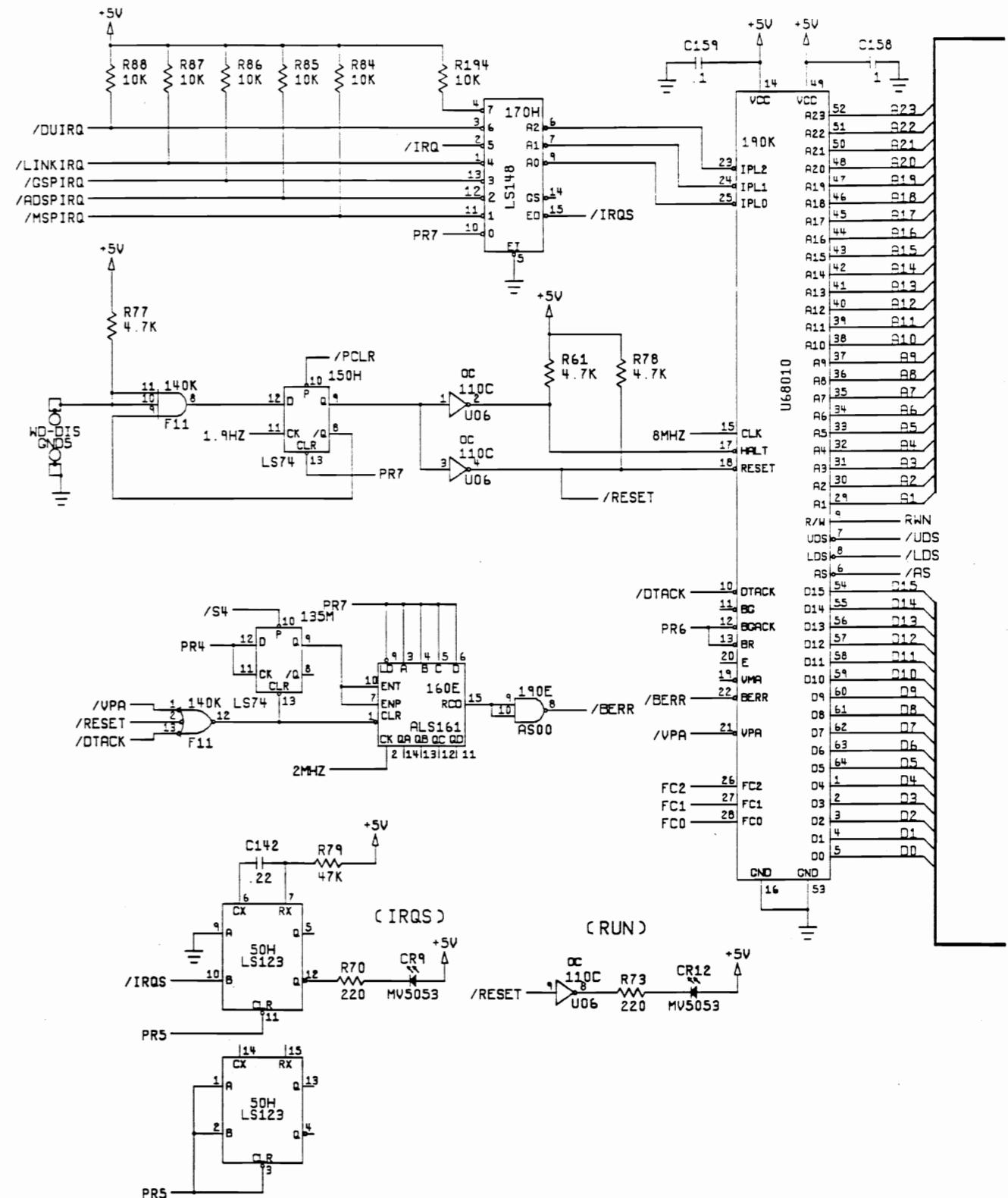
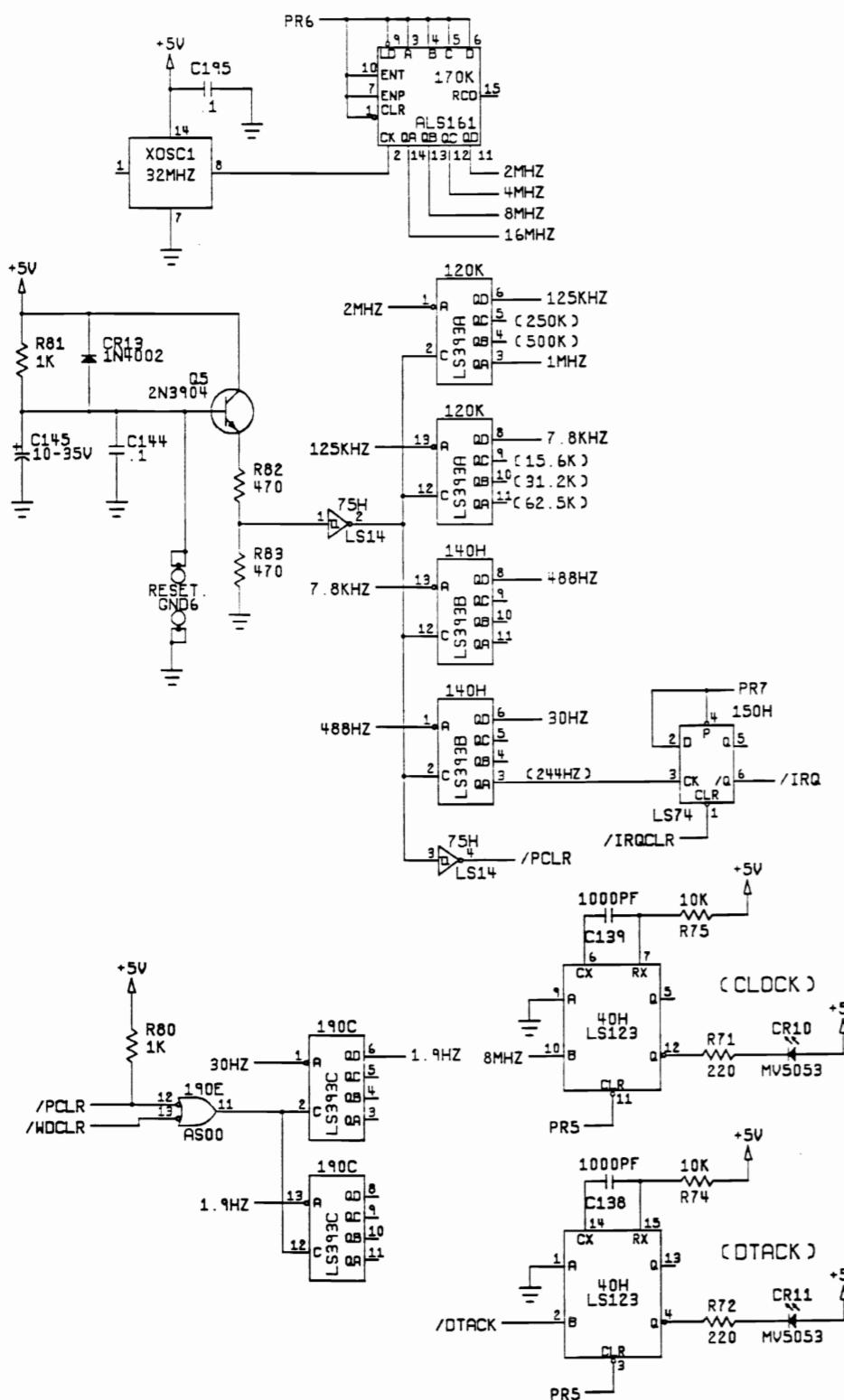
NOTICE TO ALL PERSONS RECEIVING THIS DRAWING
 CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari Games Corporation, Milpitas, CA. This drawing is only conditionally issued and neither receipt nor possession thereof confers or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing, or any part thereof. Except for manufacture by vendors of Atari Games Corporation, and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.

Race Drivin' Compact™ Multisync PCB Assembly Schematic Diagram



© 1989, 1990 Atari Games Corporation
044998-01 E

SP-360 Sheet 2
1st printing

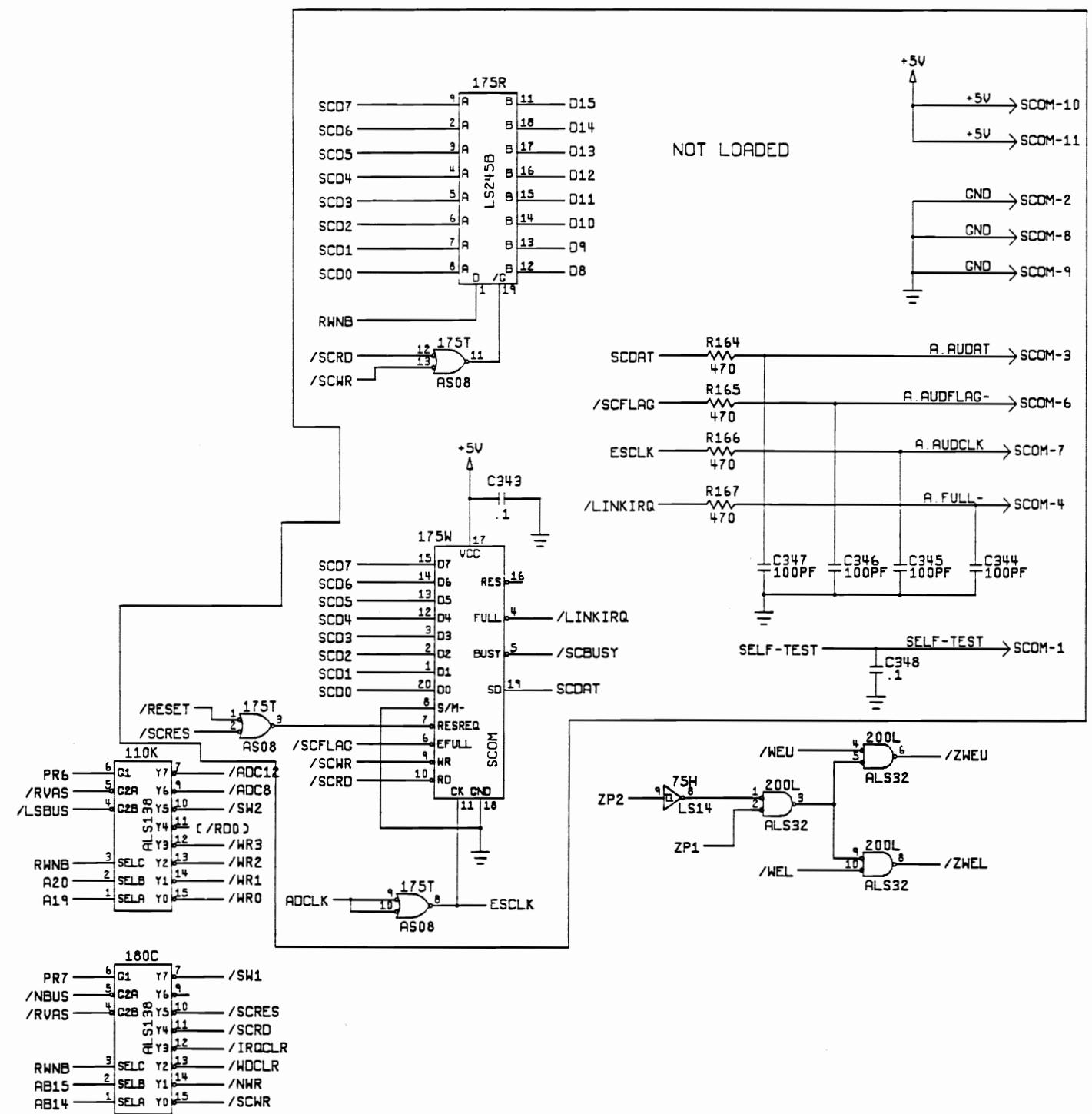
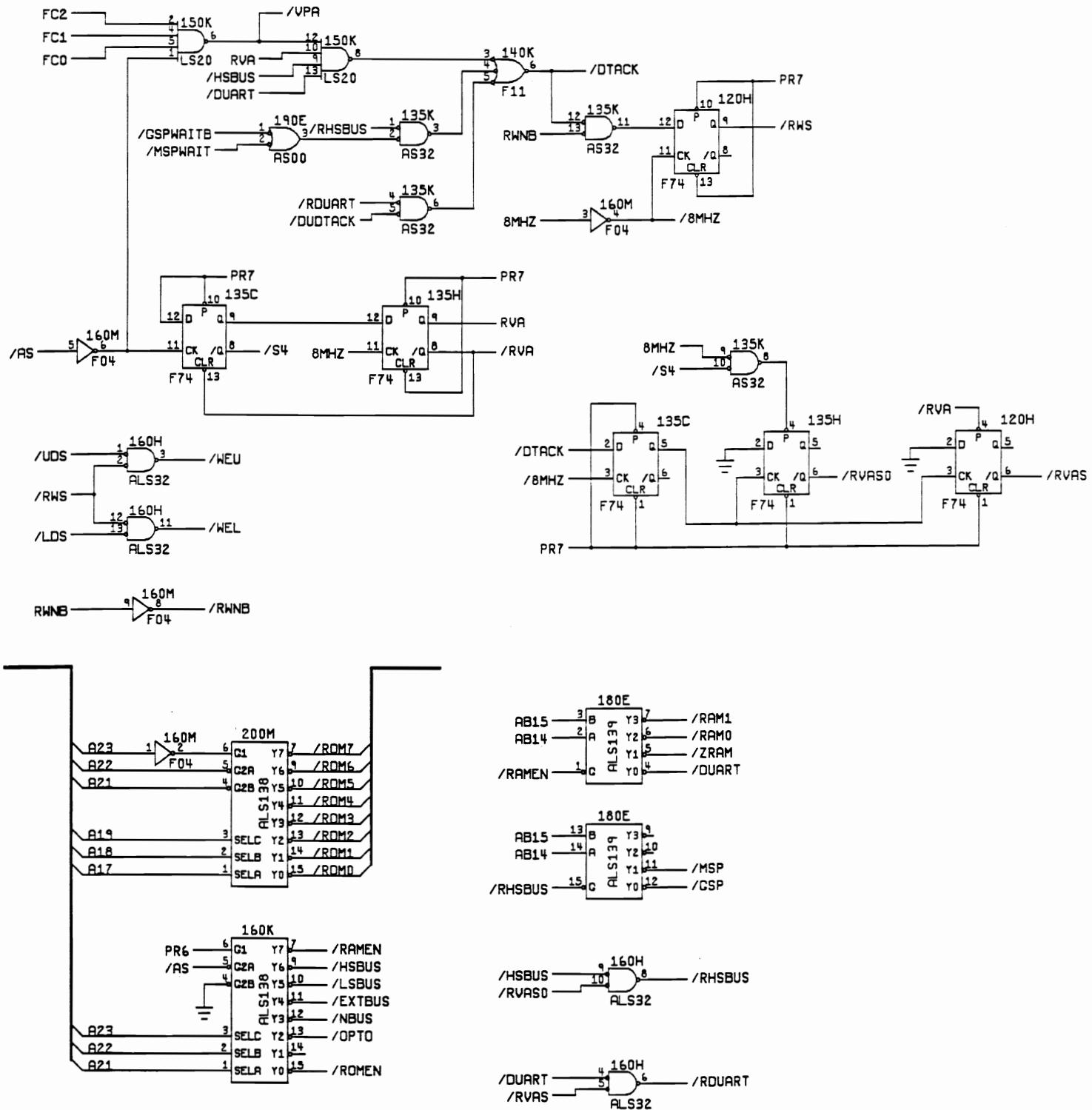


Race Drivin' Compact™ Multisync PCB Assembly Schematic Diagram

**NOTICE TO ALL PERSONS
RECEIVING THIS DRAWING**

CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari Games Corporation, Milpitas, CA. This drawing is only conditionally issued and neither receipt nor possession thereof confers or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing, or any part thereof. Except for manufacture by vendors of Atari Games Corporation, and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.



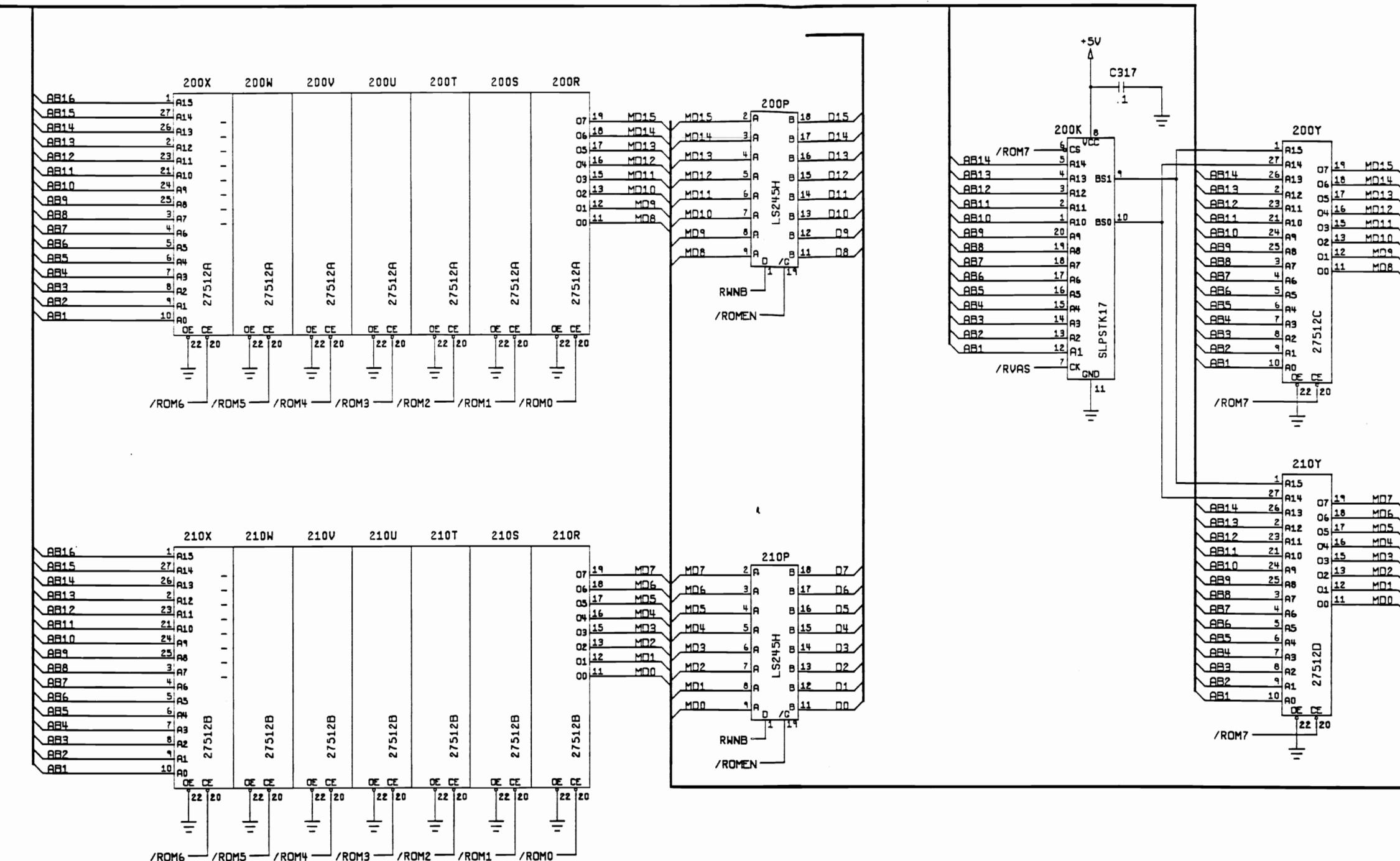


**NOTICE TO ALL PERSONS
RECEIVING THIS DRAWING**

DENTAL: Reproduction forbidden without specific written permission of Atari Corporation, Milpitas, CA. This drawing conditionally issued and neither receipt nor possession thereof confers or transfers any license to use, the subject matter of this drawing, or any design or technical information thereon, nor any right to reproduce this drawing, or any part thereof. Except for sale by vendors of Atari Games Corporation and for manufacture under the corporate license, no right is granted to reproduce this drawing or the subject matter of this drawing, unless by written agreement with or permission from the corporation.

Race Drivin' Compact™ Multisync PCB Assembly Schematic Diagram





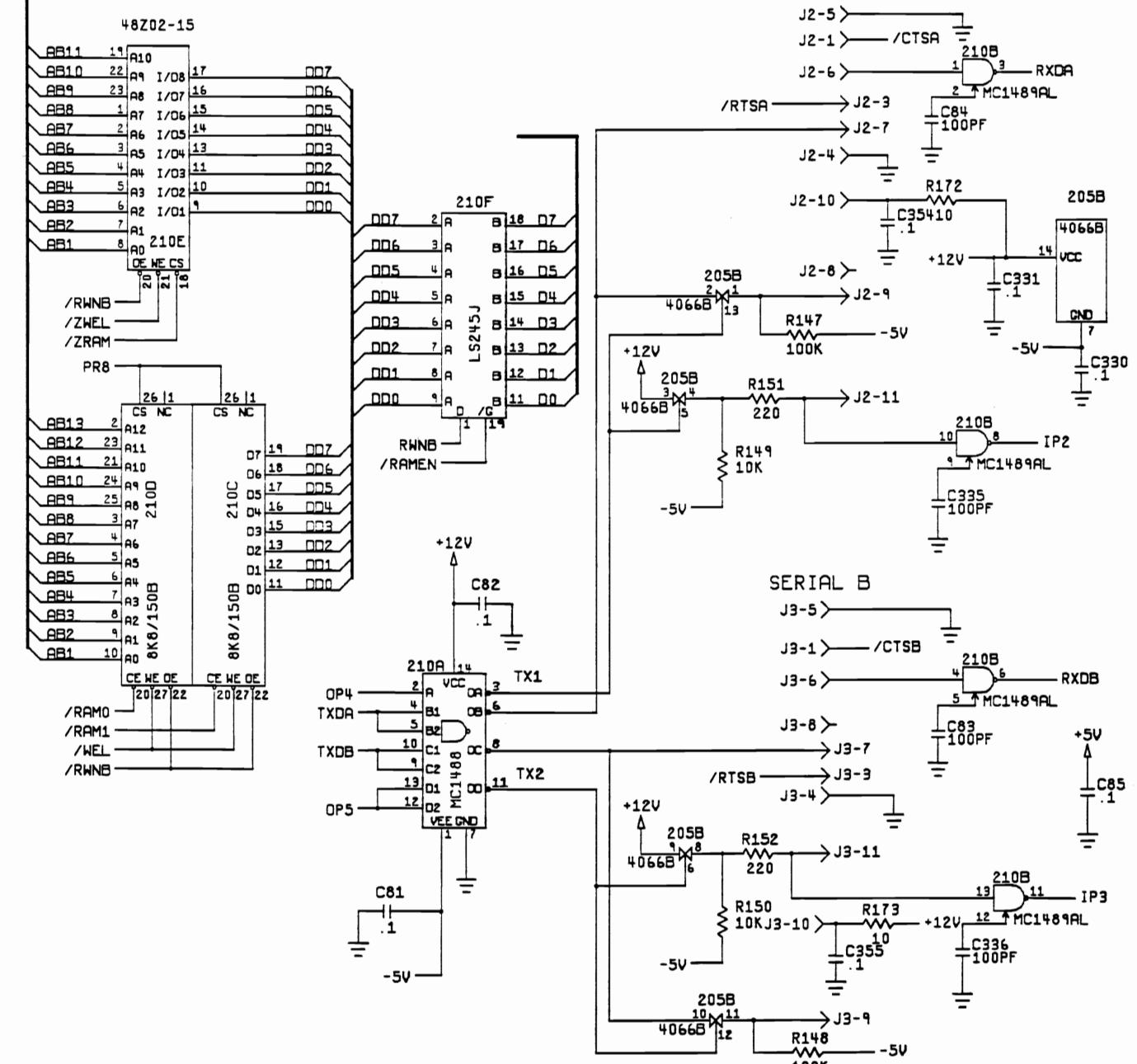
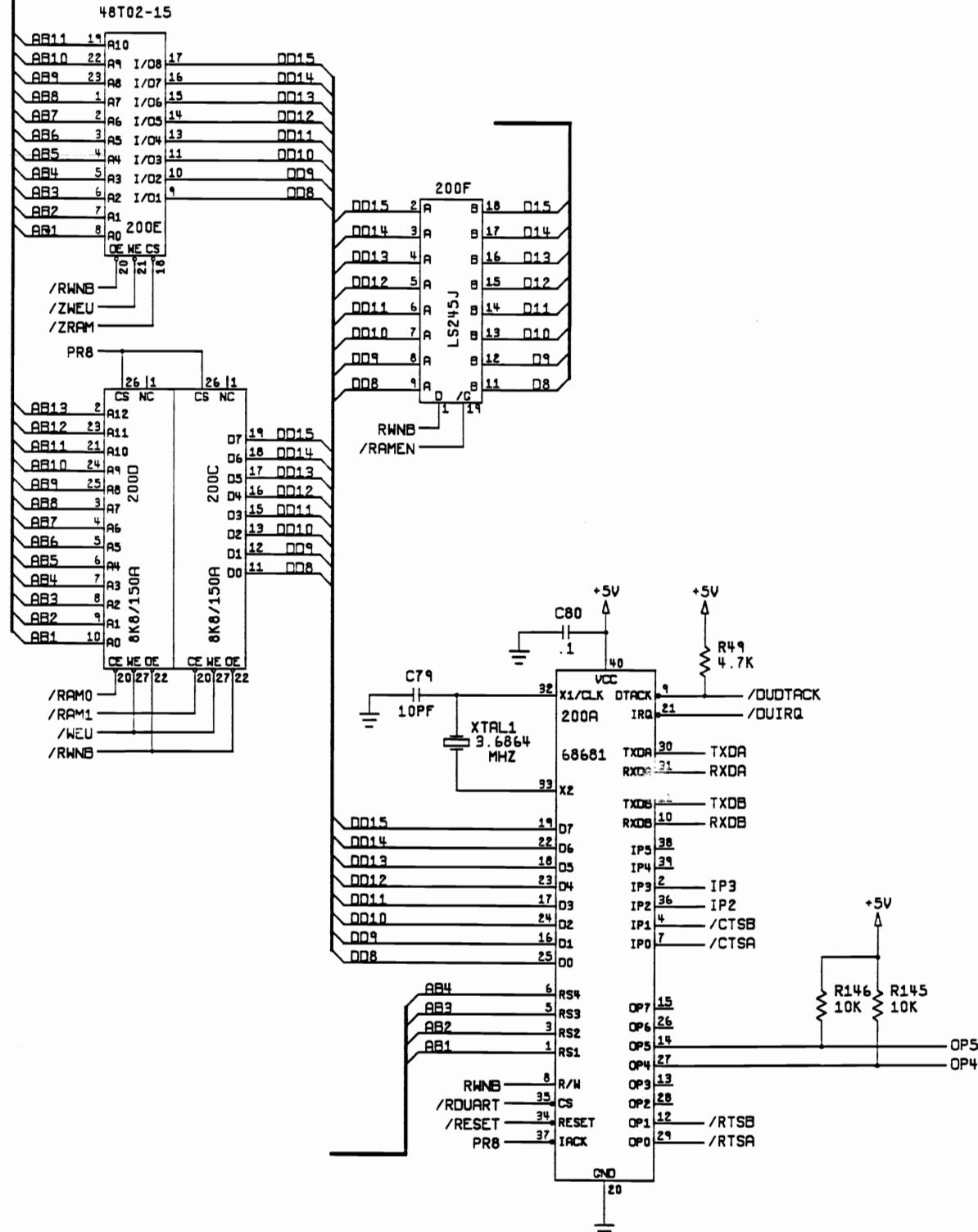
NOTICE TO ALL PERSONS RECEIVING THIS DRAWING
 CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari Games Corporation, Milpitas, CA. This drawing is only conditionally issued and neither receipt nor possession thereof confers or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing, or any part thereof. Except for manufacture by vendors of Atari Games Corporation, and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.

Race Drivin' Compact™ Multisync PCB Assembly Schematic Diagram



© 1989, 1990 Atari Games Corporation
 044998-01 E

SP-360 Sheet 5
 1st printing

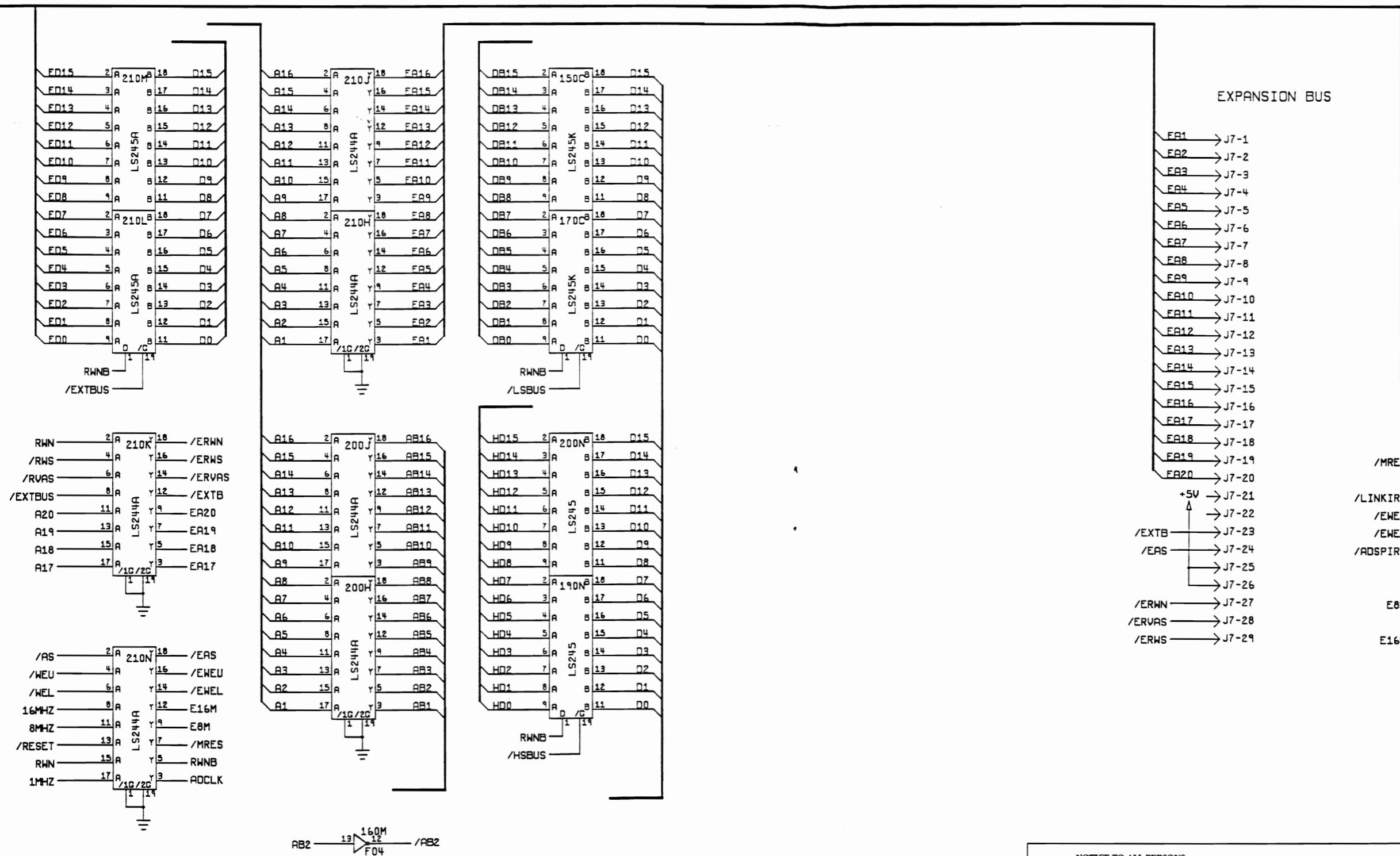


Race Drivin' Compact™ Multisync PCB Assembly Schematic Diagram



**NOTICE TO ALL PERSONS
RECEIVING THIS DRAWING**

CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari Games Corporation, Milpitas, CA. This drawing is only conditionally issued and neither receipt nor possession thereof confers or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing, or any part thereof. Except for manufacture by vendor of Atari Games Corporation, and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.



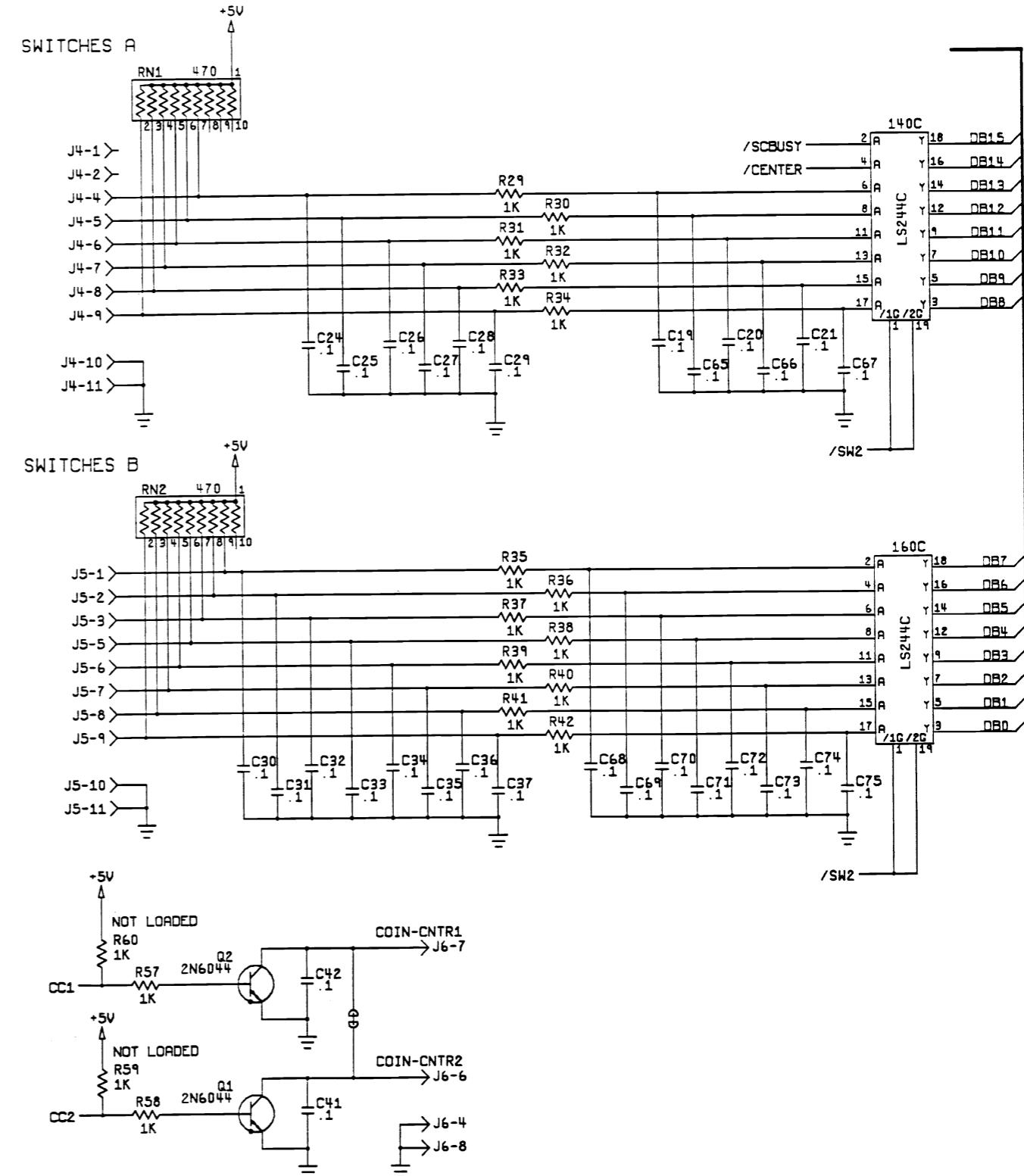
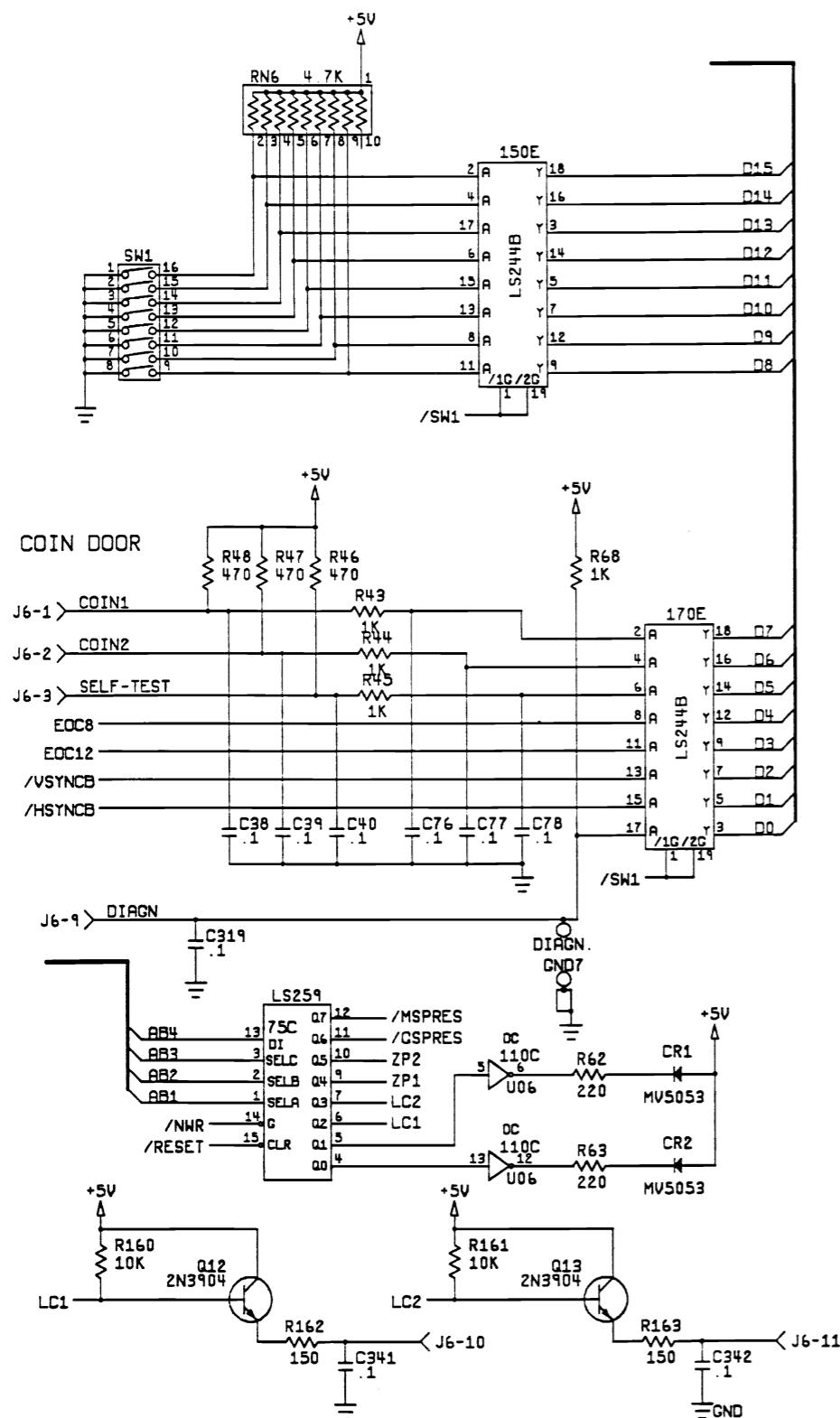
NOTICE TO ALL PERSONS RECEIVING THIS DRAWING
 CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari Games Corporation, Milpitas, CA. This drawing is only conditionally issued and neither receipt nor possession thereof confers or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing, or any part thereof. Except for manufacture by vendors of Atari Games Corporation, and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.

Race Drivin' CompactTM Multisync PCB Assembly Schematic Diagram



© 1989, 1990 Atari Games Corporation
 044998-01 E

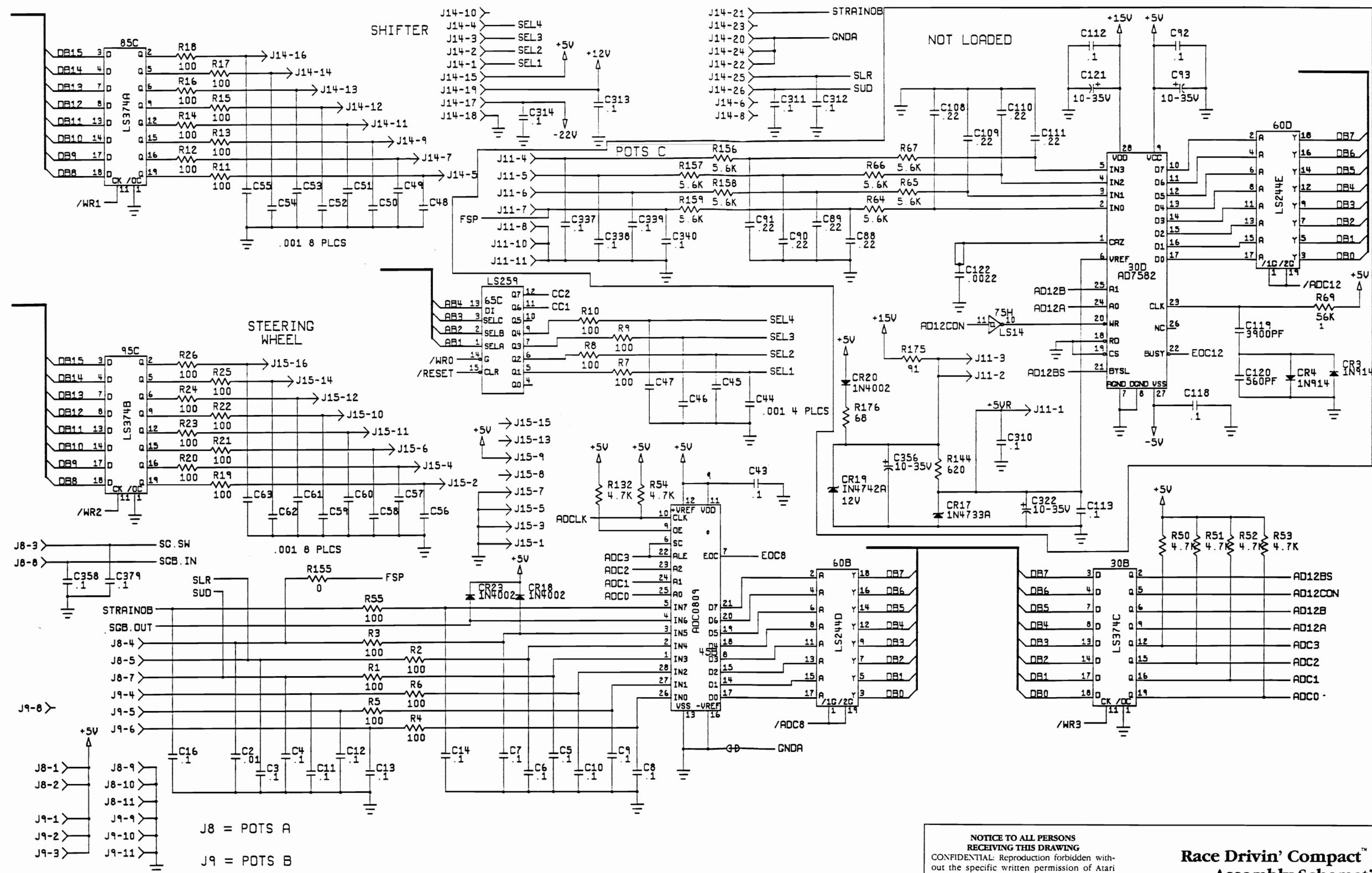
SP-360 Sheet 7
 1st printing



NOTICE TO ALL PERSONS RECEIVING THIS DRAWING
 CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari Games Corporation, Milpitas, CA. This drawing is only conditionally issued and neither receipt nor possession thereof confers or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing, or any part thereof. Except for manufacture by vendors of Atari Games Corporation, and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.

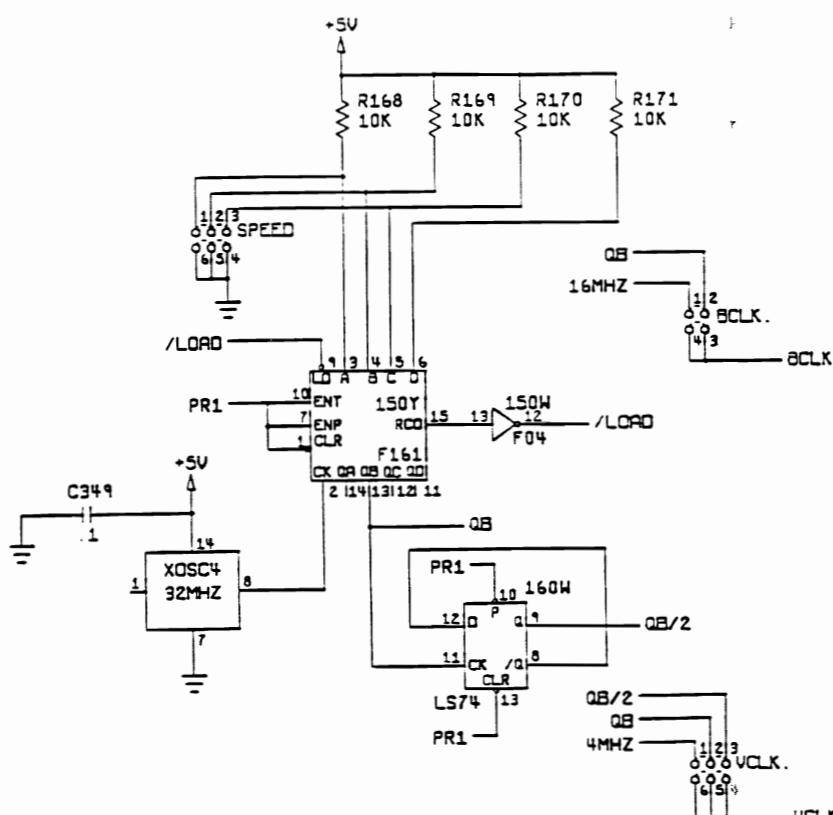
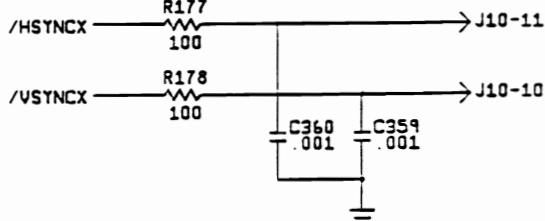
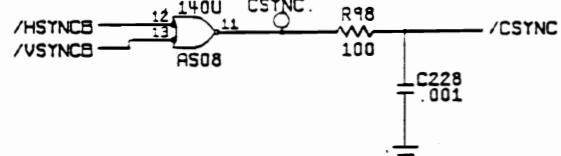
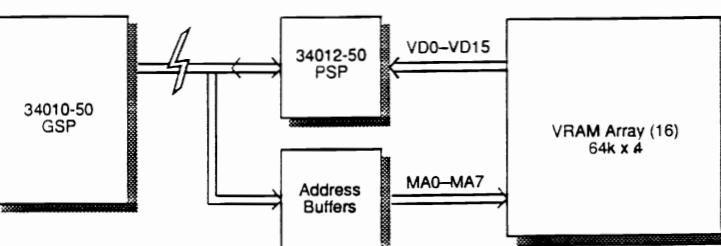
Race Drivin' Compact™ Multisync PCB
 Assembly Schematic Diagram





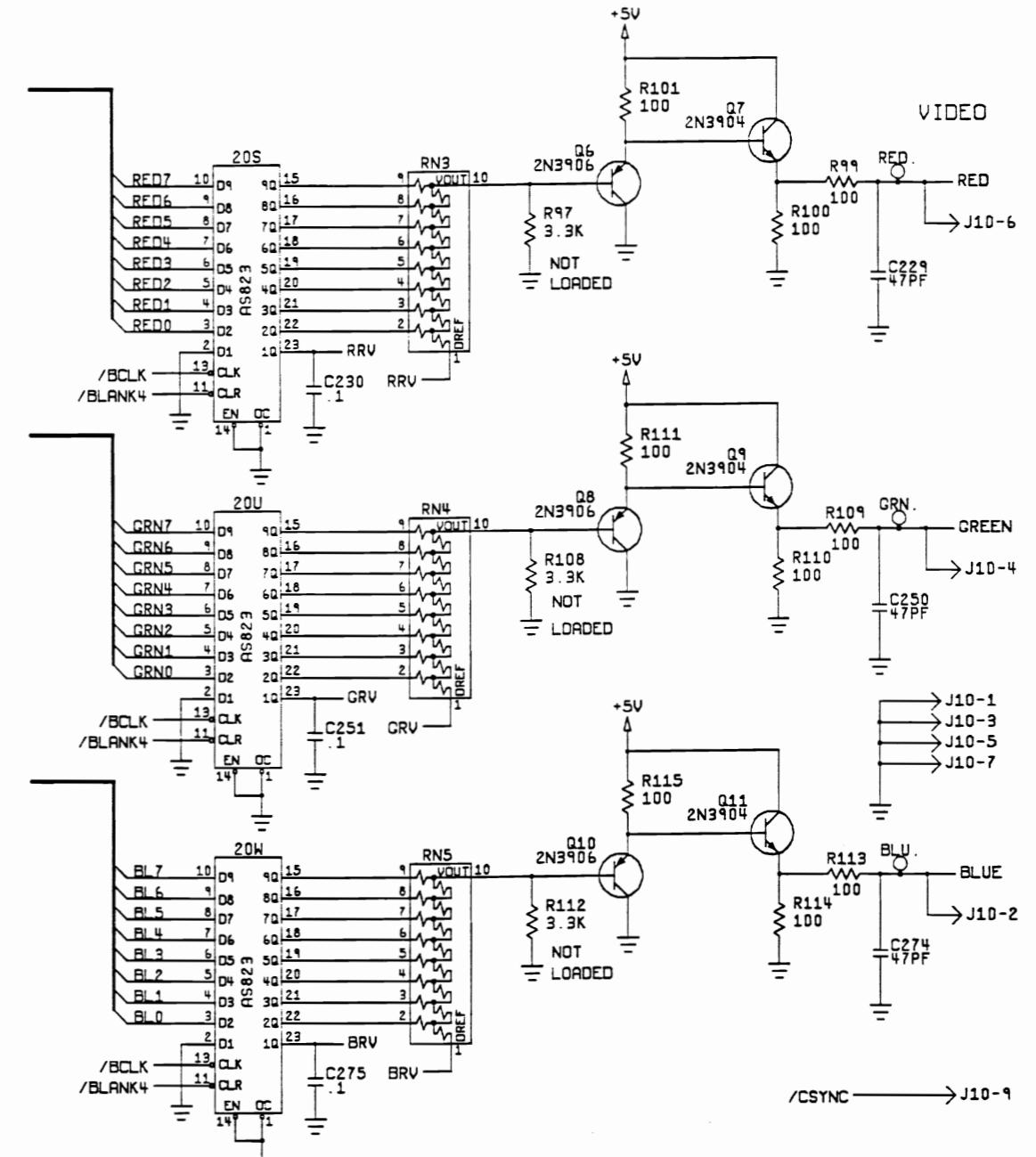
**Race Drivin' Compact™ Multisync PCB
Assembly Schematic Diagram**





Correct Jumper Settings for Hard Drivin' Compact

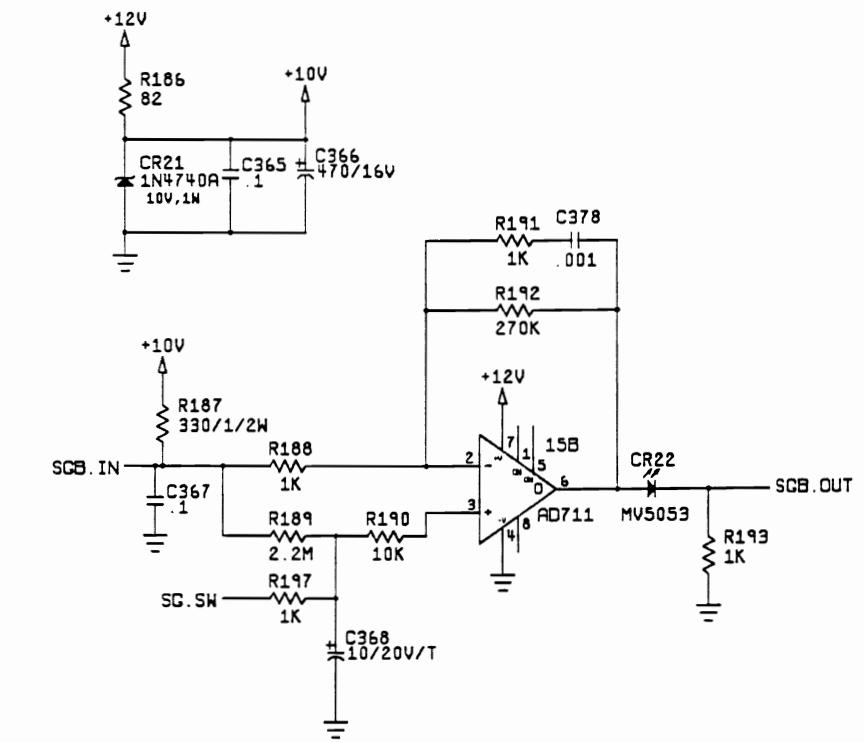
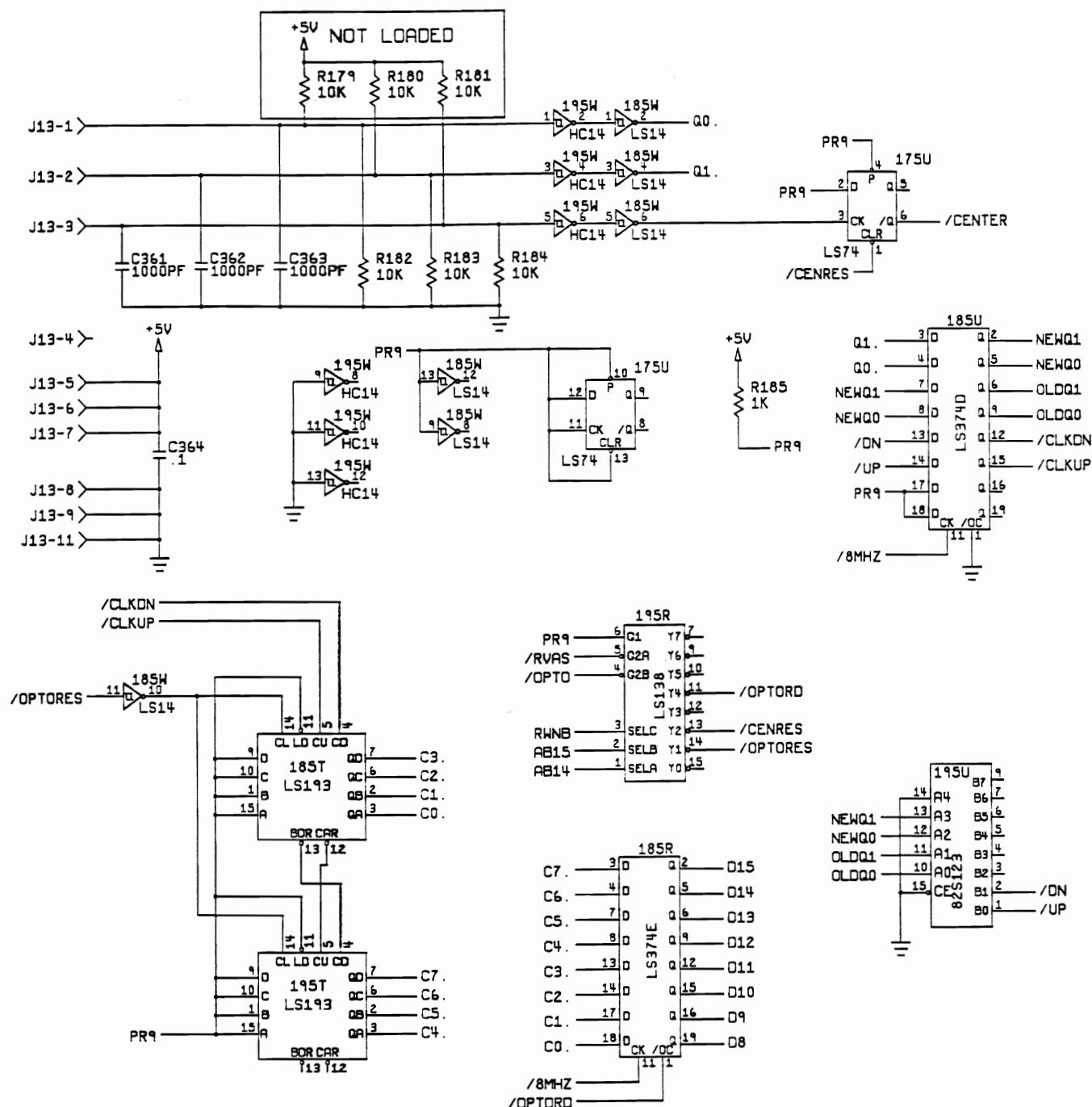
Jumper	Setting
Speed	B
BCLK	QB
VCLK	QB/2



NOTICE TO ALL PERSONS RECEIVING THIS DRAWING
 CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari Games Corporation, Milpitas, CA. This drawing is only conditionally issued and neither receipt nor possession thereof confers or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing, or any part thereof. Except for manufacture by vendors of Atari Games Corporation, and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.

Race Drivin' Compact™ Multisync PCB Assembly Schematic Diagram

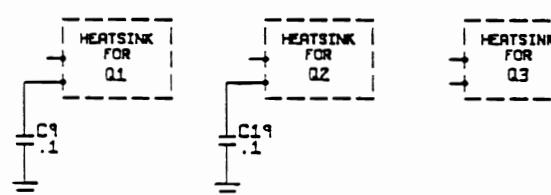
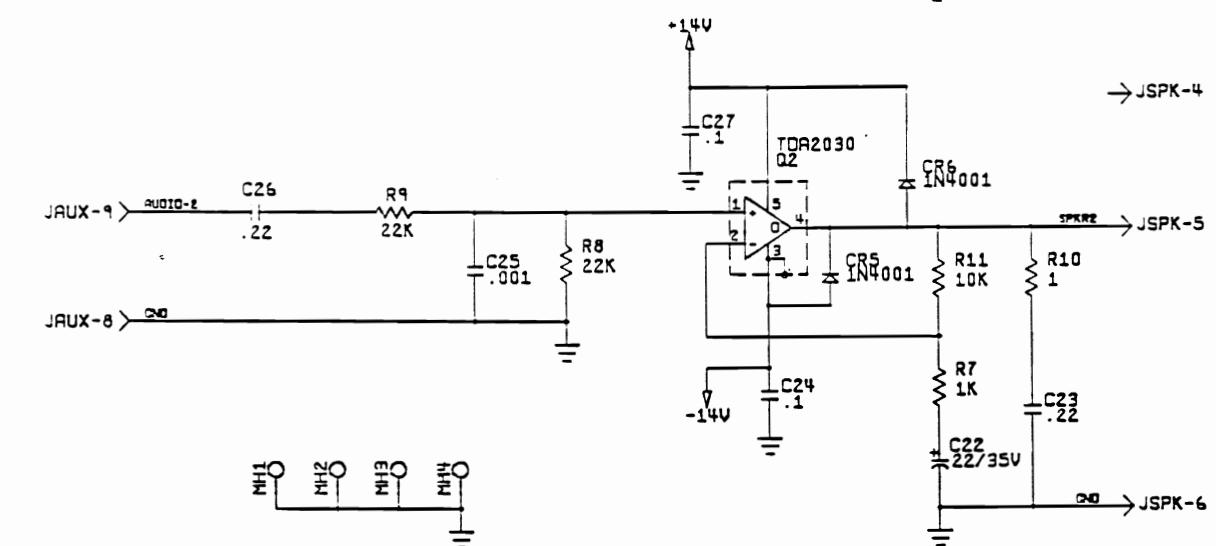
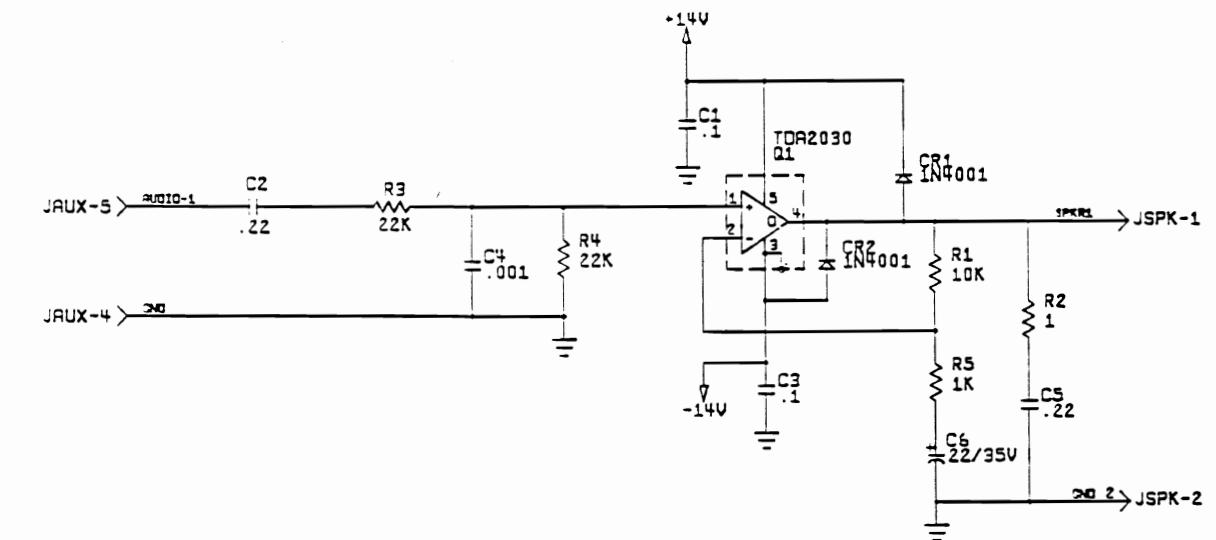
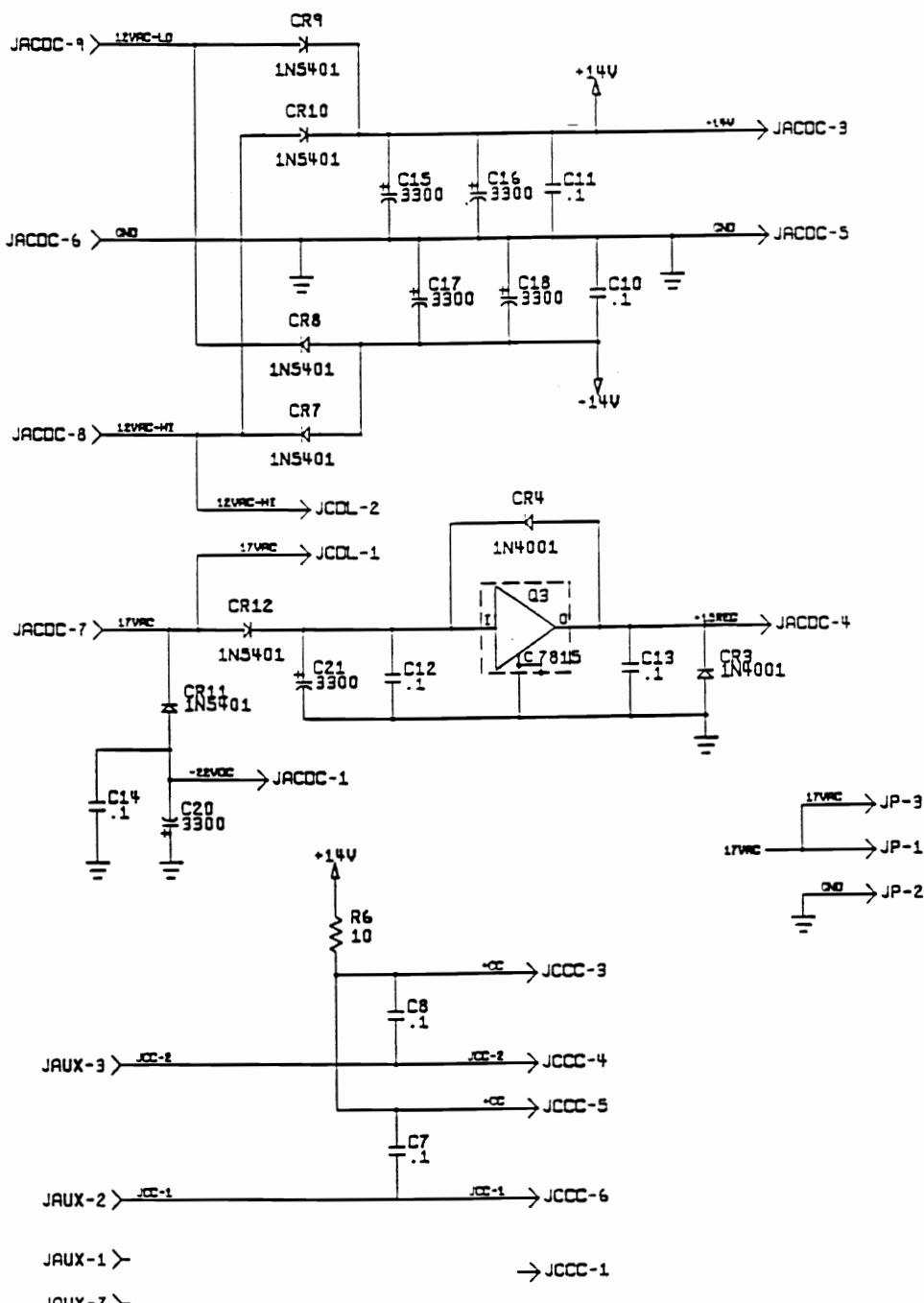




Race Drivin' Compact™ Multisync PCB Assembly Schematic Diagram

**NOTICE TO ALL PERSONS
RECEIVING THIS DRAWING**





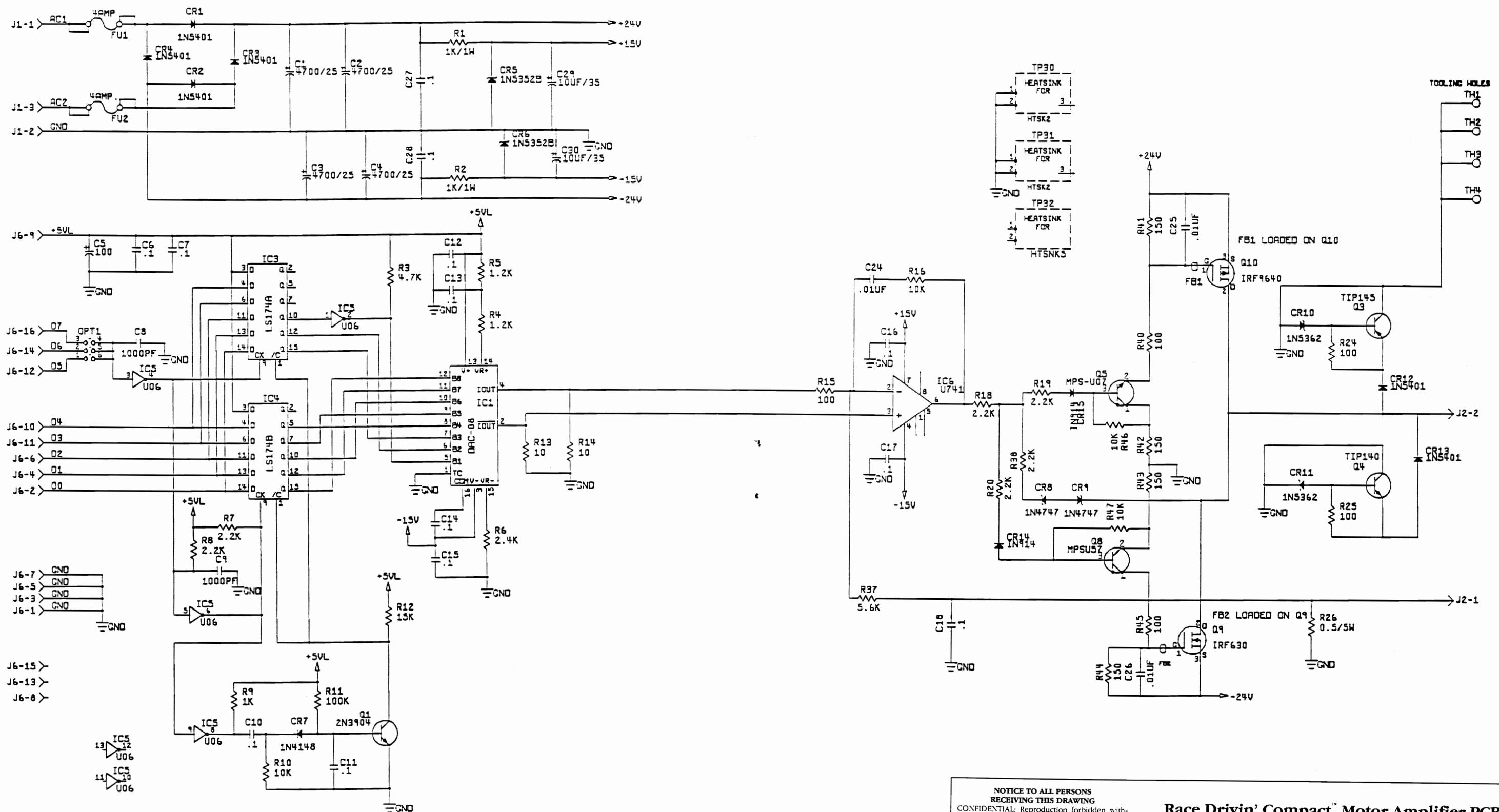
NOTICE TO ALL PERSONS RECEIVING THIS DRAWING
CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari Games Corporation, Milpitas, CA. This drawing is only conditionally issued and neither receipt nor possession thereof confers or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing, or any part thereof. Except for manufacture by vendors of Atari Games Corporation, and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.

Race Drivin' Compact™ APU PCB Assembly Schematic Diagram



© 1989, 1990 Atari Games Corporation
044431-XX D

SP-360 Sheet 12
1st printing

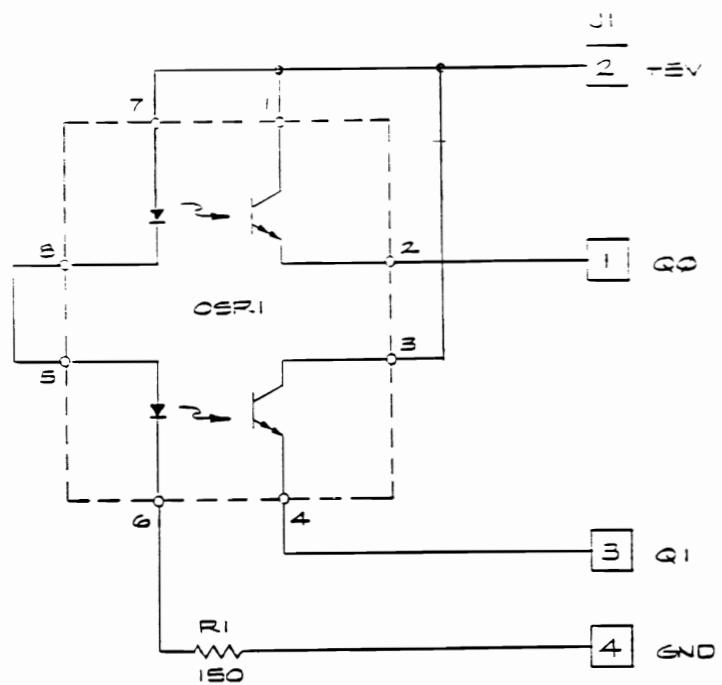


NOTICE TO ALL PERSONS RECEIVING THIS DRAWING

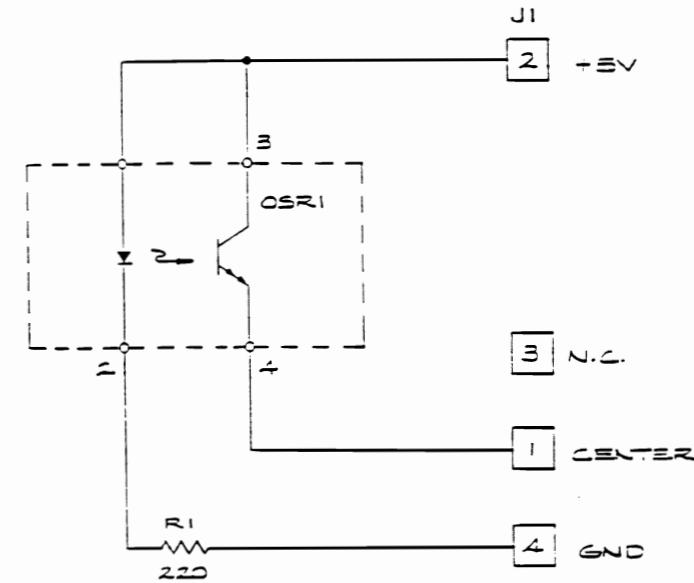
DENTAL: Reproduction forbidden without specific written permission of Atari Corporation, Milpitas, CA. This drawing conditionally issued and neither receipt or possession thereof confers or transfers any, or license to use, the subject matter or wing or any design or technical information thereon, nor any right to reproduce drawing, or any part thereof. Except for icture by vendors of Atari Games Corporation and for manufacture under the corpora license, no right is granted to re-draw this drawing or the subject matter unless by written agreement with or permission from the corporation.

Race Drivin' Compact™ Motor Amplifier PCB Assembly Schematic Diagram





Encoder PCB



Centering PCB

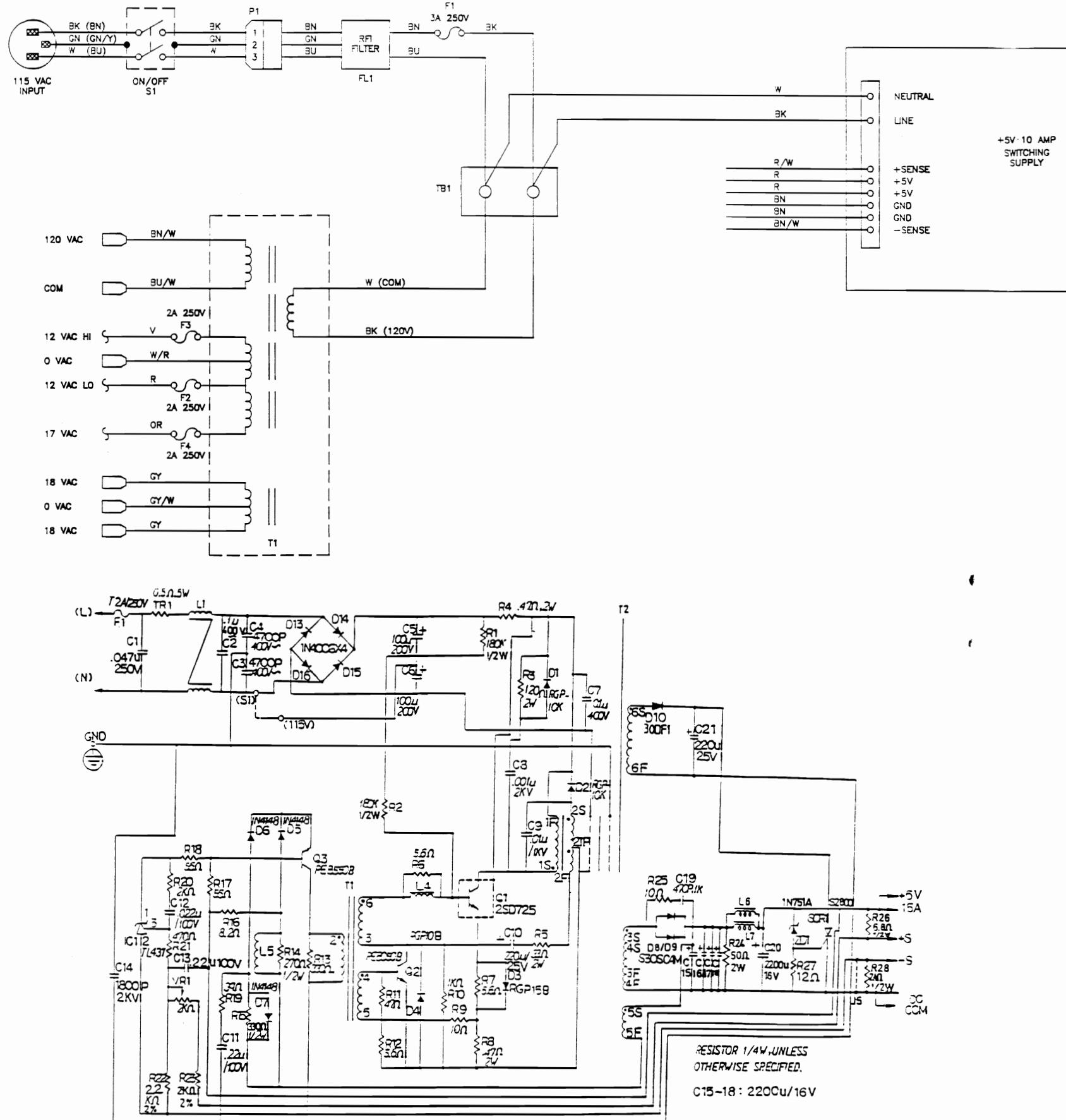
NOTICE TO ALL PERSONS RECEIVING THIS DRAWING
 CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari Games Corporation, Milpitas, CA. This drawing is only conditionally issued and neither receipt nor possession thereof confers or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing, or any part thereof. Except for manufacture by vendors of Atari Games Corporation, and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.

Race Drivin' Compact™ Encoder and Centering PCB Assembly Schematic Diagrams

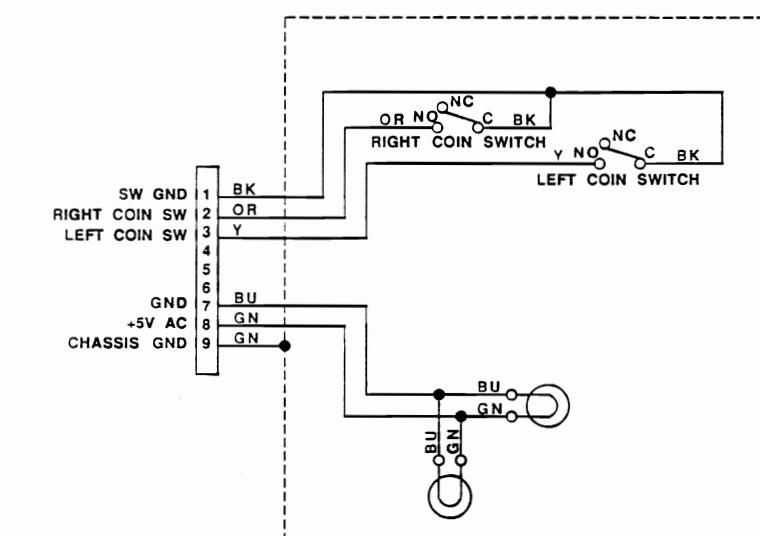


© 1989, 1990 Atari Games Corporation
 046689-01 A & 046691-01 B

SP-360 Sheet 14
1st printing



Hitron Power Supply Schematic



Coin Door Wiring Diagram

**NOTICE TO ALL PERSONS
RECEIVING THIS DRAWING**

Wiring Diagrams for the Power Supply and Coin Door and the Schematic for the Hitron 5V, 15A Power Supply



Main Board Memory Map

ROMEN: Program ROM {Read Only}

00 0000 - 01 FFFF	ROM 0	128K Bytes
02 0000 - 03 FFFF	ROM 1	128K Bytes
04 0000 - 05 FFFF	ROM 2	128K Bytes
06 0000 - 07 FFFF	ROM 3	128K Bytes
08 0000 - 09 FFFF	ROM 4	128K Bytes
0A 0000 - 0B FFFF	ROM 5	128K Bytes
0C 0000 - 0D FFFF	ROM 6	128K Bytes
0E 0000 - 0F FFFF	ROM 7	128K Bytes

OPTO: Optical Steering Wheel Reader

40 0000	{R}	OPTORD	Read the Optical Counter
40 4000	{W}	OPTORES	Reset the Optical Counter
40 8000	{W}	CENRES	Reset the Optical Center Flag

NBUS

60 0000	{R/W}	SCOM	Serial Sound Communications
60 4000	{R}	SCRES	Reset SCOM IC (Address Strobe) READ ONLY
60 4000	{W}		Latches on Address Strobe (Data is ignored)
60 4000		LED 1 off	
60 4002		LED 2 off	
60 4004		LC1ON	Aux Control 1 High (Latched)
60 4006		LC2ON	Aux Control 2 High (Latched)
60 4008		ZP1WEN	ZeroPower RAM Enable 1 (Latched)
60 400A		ZP2WDIS	ZeroPower RAM Disable 2 (Latched)
60 400C		GSP Reset Low	
60 400E		MSP Reset Low	
60 4010		LED 1 on	
60 4012		LED 2 on	
60 4014		LC1OFF	Aux Control 1 High (Latched)
60 4016		LC2OFF	Aux Control 2 High (Latched)
60 4018		ZP1WDIS	ZeroPower RAM Disable 1 (Latched)
60 401A		ZP2WEN	ZeroPower RAM Enable 2 (Latched)
60 401C		GSP Reset High	
60 401E		MSP Reset High	
60 8000	{W}	WDCLR	Clear Watch Dog (Address Strobe)
60 C000	{R}	SW1	
D15		Option Switch 7	('0' = on)
D14		Option Switch 6	('0' = on)
D13		Option Switch 5	('0' = on)
D12		Option Switch 4	('0' = on)
D11		Option Switch 3	('0' = on)
D10		Option Switch 2	('0' = on)
D9		Option Switch 1	('0' = on)
D8		Option Switch 0	('0' = on)
D7		Coin Switch 1	('0' = on)
D6		Coin Switch 2	('0' = on)
D5		Self-Test Switch	('0' = on)

Main Board Memory Map, Contd.

D4	8 Bit ADC, End of Conversion = '1'
D3	12 Bit A/D, End of Conversion = '1'
D2	Vertical Sync from GSP
D1	Horizontal Sync from GSP
D0	Diagnostic Switch ('0' = on)
60 C000	{W} Clear Timer IRQ (Address Strobe)

LSBUS

A0 0000	{R}
A0 0000	{W} WR0, Write to Shifter Interface and Coin Counters.

Latches on Address Strobe (Data is ignored)

A0 0000	SEL 1 Low
A0 0002	SEL 2 Low
A0 0004	SEL 3 Low
A0 0006	SEL 4 Low
A0 0008	
A0 000A	
A0 000C	Coin Counter 1 off
A0 000E	Coin Counter 2 off
A0 0010	
A0 0012	SEL 1 High
A0 0014	SEL 2 High
A0 0016	SEL 3 High
A0 0018	SEL 4 High
A0 001A	
A0 001C	Coin Counter 1 on
A0 001E	Coin Counter 2 on

A8 0000	{R} /SW2, Sixteen External Switch Inputs
A8 0000	{W} /WR1, Shifter Interface Latch, D8 - D15

B0 0000	{R} /RD2, Read 8 Bit A/D
B0 0000	{W} /WR2, Steering Wheel Latch, D8- D15

B8 0000	{R} /RD3, Read 12 Bit A/D
B8 0000	{W} /WR3, A/D Control

D8 - AD12BS	12 Bit A/D Byte Select
D7 - AD12CON	12 Bit A/D Write
D6 - AD12B	12 Bit A/D Address 1
D5 - AD12A	12 Bit A/D Address 0

D3 - ALE, SC	8 Bit A/D Write
D2 - ADDC	8 Bit A/D Address C
D1 - ADDB	8 Bit A/D Address B
D0 - ADDA	8 Bit A/D Address A

RAMEN: Ram and DUART {R/W}

FF 0000	DUART
FF 4000	- FF 4FFE ZRAM (4K Bytes)
FF 8000	- FF BFFF RAM 0 (16K Bytes)
FF C000	- FF FFFF RAM 1 (16K Bytes)

NOTICE TO ALL PERSONS RECEIVING THIS DRAWING

CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari Games Corporation, Milpitas, CA. This drawing is only conditionally issued and neither receipt nor possession thereof confers or transfers any right in, or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce this drawing, or any part thereof. Except for manufacture by vendors of Atari Games Corporation, and for manufacture under the corporation's written license, no right is granted to reproduce this drawing or the subject matter thereof, unless by written agreement with or written permission from the corporation.

Race Drivin' Compact™ Memory Map

© 1989, 1990 Atari Games Corporation

SP-360 Sheet 16
1st printing

